EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	60	"703".clas. and simulat$3 same network near3 topology	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:47
L2	53	L1 and @ad<"20040205"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:40
L3	19	L2 and (graphic$5 near3 user or GUI)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:40
L4	18	L3 and (table or list near6 device or component)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:40
L5	70	"709".clas. and simulat$3 same network near3 topology	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:44
L6	61	L5 and @ad<"20040205"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:44
L7	14	L6 and (graphic$5 near3 user or GUI)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:44
L8	13	L7 and (table or list near6 device or component)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:44
L9	114	"370".clas. and simulat$3 same network near3 topology	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:46

L10	86	L9 and @ad<"20040205"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:49
L11	17	L10 and (graphic$5 near3 user or GUI)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:44
L12	13	L8 and (table or list near6 device or component)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:45
L13	0	"345".clas. and simulat$3 same network near3 topology	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:46
L15	0	simulat$3 same network near3 topology and protocal adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:49
L16	168	simulat$3 same network near3 topology and (protocol near3 table or list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:48
L17	0	simulat$3 same network near3 topology and protocol adj table near6 neighbor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:48
L18	10	simulat$3 same network near3 topology and protocol adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:49
L19	8	L18 and @ad<"20040205"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:50
L20	131	L16 and @ad<"20040205"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:50

L21	0	L20 and build adj file	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 19:51
L22	4	L20 and automatic$3 same network adj topology	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 19:52

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1   A graphical interface for specification of extended queueing network models   ■
J. B. Sinclair, S. Madala
November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**
Publisher: IEEE Computer Society Press
Full text available: 🗎 pdf(944.39 KB)   Additional Information: full citation, references, citings, index terms

2   DAP: A Generic Platform for the Simulation of Distributed Algorithms   ■
Ioannis Chatzigiannakis, Athanasios Kinalis, Athanasios Poulakidas, Grigorios Prasinos,
Christos Zaroliagis
April 2004 **Proceedings of the 37th annual symposium on Simulation ANSS '04**
Publisher: IEEE Computer Society
Full text available: 🗎 pdf(239.96 KB)   Additional Information: full citation, abstract, index terms

> DAP (Distributed Algorithms Platform) is a generic andhomogeneous simulation
> environment aiming at the implementation,simulation, and testing of distributed
> algorithmsfor wired and wireless networks. In this work, we presentits architecture, the
> most important design decisions, anddiscuss its distinct features and functionalities. DAP
> allowsthe algorithm designer to implement a distributed protocolby creating his own
> customized environment, and programmingin a standard programming language in a ...

3   Digital simulation as an evaluation aid in the development of dynamic color graphics   ■
human-machine interfaces
James R. Delaney
March 1982 **Proceedings of the 15th annual symposium on Simulation ANSS '82**
Publisher: IEEE Computer Society Press
Full text available: 🗎 pdf(1.32 MB)   Additional Information: full citation, abstract, index terms

> As part of a continuing effort in the area of system control of military communications
> networks, the MITRE Corporation, under the auspices of the Rome Air Development
> Center, has developed a testbed for the evaluation of graphics human-machine interfaces
> for communications network control centers. The testbed uses a MITRE-developed
> communications network simulator, SCAT/G, to drive the candidate network status
> displays. By duplicating the dynamics of the communications network and its envi ...

4   Developing a graphical user interface for discrete event simulation   ■
Hamad I. Odhabi, Ray J. Paul, Robert D. Macredie
December 1998 **Proceedings of the 30th conference on Winter simulation WSC '98**
Publisher: IEEE Computer Society Press

. Full text available: pdf(71.42 KB)   Additional Information: full citation, references, index terms

5 Session 1: The Clack graphical router: visualizing network software

Dan Wendlandt, Martin Casado, Paul Tarjan, Nick McKeown
September 2006 **Proceedings of the 2006 ACM symposium on Software visualization SoftVis '06**
Publisher: ACM Press
Full text available: pdf(793.45 KB)   Additional Information: full citation, abstract, references, index terms

> We present Clack, a graphical environment for teaching students how Internet routers work and other core networking concepts. Clack is a router written as a Java Applet, and routes live network traffic in real-time. Students can look inside the router to see how packets are processed, and watch the dynamics of the queues. They can modify and enhance the router, making it handle packets as they wish. Clack provides multiple views of the operational router including the full network topology, the ...

> **Keywords**: education, networking, router design, software visualization

6 The JigCell Model Builder: A Spreadsheet Interface for Creating Biochemical Reaction Network Models

Marc T. Vass, Clifford A. Shaffer, Naren Ramakrishnan, Layne T. Watson, John J. Tyson
April 2006 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 3 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, index terms

> Converting a biochemical reaction network to a set of kinetic rate equations is tedious and error prone. We describe known interface paradigms for inputing models of intracellular regulatory networks: graphical layout (diagrams), wizards, scripting languages, and direct entry of chemical equations. We present the JigCell Model Builder, which allows users to define models as a set of reaction equations using a spreadsheet (an example of direct entry of equations) and outputs model definitions in ...

> **Keywords**: Biochemical reaction networks, bioinformatics, modeling, user interface paradigms.

7 Tool papers: Visual toolkit for network security experiment specification and data analysis

L. Li, P. Liu, G. Kesidis
November 2006 **Proceedings of the 3rd international workshop on Visualization for computer security VizSEC '06**
Publisher: ACM Press
Full text available: pdf(433.52 KB)   Additional Information: full citation, abstract, references, index terms

> The increasing availability of network testbeds and the benefits of visualization-based security study call for the emergence of supporting tools for network security research. In this article we present ESVT, an integrated experiment specification and visualization toolkit that supports network experimenters to conduct interactive experiments on network testbeds such as DETER and Emulab. The ESVT package includes a topology builder including experiment specification, a TCL script generator, and ...

> **Keywords**: animated topology, experiment specification, testbed, visual toolkit

8 The performance analysis workstation: an interactive animated simulation package for queueing networks

B. Melamed

. November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**
Publisher: IEEE Computer Society Press
Full text available: ▣ pdf(1.28 MB)   Additional Information: full citation, references, citings, index terms

9 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced**
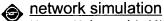**Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: ▣ pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...·

10 Short talks-Specialized section: tangible interfaces: A tangible interface for IP network simulation
Kazue Kobayashi, Mitsunori Hirano, Atsunobu Narita, Hiroshi Ishii
April 2003 **CHI '03 extended abstracts on Human factors in computing systems CHI**
'03
Publisher: ACM Press
Full text available: ▣ pdf(325.96 KB)   Additional Information: full citation, abstract, references, index terms

We present the IP Network Design Workbench which supports collaborative network design and simulation by a group of experts and customers. This system is based on a tangible user interface platform called "Sensetable," which can wirelessly detect the location and orientation of physical pucks. Using this system, users can directly · manipulate network topologies, control parameters of nodes and links using physical pucks on the sensing table, and simultaneously see the simulation results projected ...

Keywords: computer supported collaborative work, network design, network simulation, tangible user interface

11 Mobile wireless network system simulation
Joel Short, Rajive Bagrodia, Leonard Kleinrock
December 1995 **Proceedings of the 1st annual international conference on Mobile**
computing and networking MobiCom '95
Publisher: ACM Press
Full text available: ▣ pdf(1.63 MB)   Additional Information: full citation, references, citings, index terms

12 Visualization in network topology optimization
Hong Liu, Donald Hockney
April 1992 **Proceedings of the 1992 ACM annual conference on Communications CSC**
'92
Publisher: ACM Press
Full text available: ▣ pdf(708.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

The intrinsic complexity and the geometric nature of network topology optimization lends itself to visual human-computer interaction. We have applied techniques of scientific visualization to all the aspects of network design, and have designed graphical user interface which takes full advantage of human expertise in the context of automated design processes.

13 NEST: a network simulation & prototyping testbed
A. Dupy, J. Schwartz, Y. Yemini, D. Bacon
October 1989 **Proceedings of the 21st conference on Winter simulation WSC '89**
Publisher: ACM Press
Full text available: pdf(685.99 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes Nest, a graphical environment for distributed networked systems simulation and rapid-prototyping. Nest users can develop and test distributed systems and protocols (from crude models to actual system code) within simulated network scenarios. Nest represents an environment-based approach to simulation. Users view Nest as an extension of their standard Unix™ environment. Nest offers the generality of language-based simulation techniques and the efficiencies of mode ...

14 Simulation of heterogeneous networks
Markus Rümekasten
December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94**
Publisher: Society for Computer Simulation International
Full text available: pdf(710.19 KB)   Additional Information: full citation, references, citings, index terms

15 An interactive graphical modeling tool for performance and process simulation
Dennis S. Mok, Cynthia A. Funka-Lea
December 1993 **Proceedings of the 25th conference on Winter simulation WSC '93**
Publisher: ACM Press
Full text available: pdf(759.89 KB)   Additional Information: full citation, references

16 Computer simulation of communications on the space station data management system
J. R. Agre, J. A. Clarke, M. W. Atkinson, I. H. Shahnawaz
December 1987 **Proceedings of the 19th conference on Winter simulation WSC '87**
Publisher: ACM Press
Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, references, index terms

A discrete event simulation model for performance evaluation of various alternatives in the design of the communication system on the Data Management System (DMS) of the space station has been developed. DMS.SIM, the SIMSCRIPT-based model of DMS consists of two components: (I) The communication architecture model of multiple, interconnected, fiber-optic, local area networks (LANs) where the LAN access protocol is either token-bus or a version of CSMA/CD with deterministic collision ...

17 Network Simulation II: Space-parallel network simulations using ghosts
George F. Riley, Talal M. Jaafar, Richard M. Fujimoto, Mostafa H. Ammar
May 2004 **Proceedings of the eighteenth workshop on Parallel and distributed simulation PADS '04**
Publisher: ACM Press
Full text available: pdf(187.54 KB)   Additional Information: full citation, abstract, references

We discuss an approach for creating a federated network simulation that eases the burdens on the simulator user that typically arise from more traditional methods for defining space-parallel simulations. Previous approaches have difficulties that arise from the need for global topology knowledge when forwarding simulated packets between the federates. In all but the simplest cases, proper packet forwarding decisions between federates requires routing tables of size $O(mn)$ (m is the number ...

18
Computing with structured connectionist networks

Jerome A. Feldman, Mark A. Fanty, Nigel H. Goddard, Kenton J. Lynne
February 1988 **Communications of the ACM**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(1.93 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

The design and applications of massively parallel computational models could lead to dramatic advances in the ability to automate complex tasks such as those found in artificial intelligence.

19 <u>The elements of nature: interactive and realistic techniques</u>

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

20 <u>Special issue: AI in engineering</u>

D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.
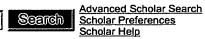
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SensorSim: a simulation framework for sensor networks - group of 4 »
S Park, A Savvides, MB Srivastava - Proceedings of the 3rd ACM international workshop on ..., 2000 -
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... nodes can be placed anywhere in the **network topology**. ... method that involves pausing
the **simulation** and reorga ... The **graphical user interface** can be slaved to a ...
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Network management system
US Patent 5,726,979, 1998 - patentstorm.us
... high performance graphic display of **network topology** Issued on ... a given **network**
configuration by virtue of **simulation**. The **network** architecture can also be used ...
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Ptolemy: A framework for simulating and prototyping heterogeneous systems - group of 6 »
J Buck, S Ha, EA Lee, DG Messerschmitt - International Journal of Computer Simulation, 1994 -
citeseer.csail.mit.edu
... a Universe) consists of a **network** of Blocks. ... SDF domain based on the interconnection
topology and relative ... **simulation** of discrete event systems, for example in ...
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Network management system - group of 2 »
JW Sprecher, DJ Winters Jr, AS Rajwany, MW Dodson, ... - US Patent 5,285,494, 1994 - Google Patents
... A **graphical user interface** is provided to the relational ... a tactical surveillance
module, a **network** management system ... and a prediction and **simulation** module. 55
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BRITE: Universal **Topology** Generation from a **User**'s Perspective - group of 9 »
A Medina, A Lakhina, I Matta, J Byers - Proceedings of Workshop the International Workshop on ..., 2001 - cs-
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... **topology** generator to use for a specific **simulation** study. ... to model other properties
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... management system using virtual reality techniques to display and **simulate** navigation to network ... - group of 6 »
R Battat, M Her, C Sundaresh, A Vinberg, S Wang - US Patent 5,958,012, 1999 - Google Patents
... [45] Date of Patent: Battat et al. [54] **NETWORK** MANAGEMENT SYSTEM USING VIRTUAL
REALITY TECHNIQUES TO DISPLAY AND **SIMULATE** NAVIGATION TO **NETWORK** COMPONENTS ...
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[BOOK] An Analysis of the Behavior of a Class of Genetic Adaptive Systems
KA De Jong - 1975 - University Microfilms International
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A **user**-friendly simulation program for teaching power systemoperations - group of 3 »
TJ Overbye, PW Sauer, CM Marzinzik, G Gross - Power Systems, IEEE Transactions on, 1995 -
ieeexplore.ieee.org
... c. Perfonn **network topology** processing. ... At any time during the **simulation**, the student
can interact ... the most important part of the **graphical user interface** (GUI ...
Cited by 36 - Related Articles - Web Search - BL Direct

[PS] <u>Design and implementation of MaRS: A routing testbed</u> - <u>group of 5 »</u>
C Alaettinoglu, AU Shankar, K Dussa-Zieger, I ... - Internetworking: Research and Experience, 1994 -
custom.lab.unb.br
... rameters such as the **topology** broadcast period for SPF (see ... Figure 3: Physical
network with routing algorithm (at the beginning of **simulation**). ...
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<u>**Network** topologies for scalable multi-**user** virtual environments</u> - <u>group of 11 »</u>
TA Funkhouser - Virtual Reality Annual International Symposium, 1996., ... - ieeexplore.ieee.org
... forward them to other clients and servers participating in the same distributed
simulation. ... Page 3 Figure 1. Peer-to-peer **topology** with a unicast **network**. ...
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Application#	Patent#	Status	Date Filed	Title	Inventor Name
10246340	Not Issued	61	09/17/2002	Generating software tests based on software product contents	FELDSTEIN, JEFFREY
10966962	Not Issued	25	10/15/2004	Automatic model-based testing	FELDSTEIN, JEFFREY
10987103	Not Issued	30	11/15/2004	Tap shoe with adjustable tap assembly	FELDSTEIN, JEFFREY
60531989	Not Issued	159	12/24/2003	System for attaching a tap to a tap shoe	FELDSTEIN, JEFFREY
10773983	Not Issued	71	02/05/2004	Method for generating a simulated network using a graphical user interface	FELDSTEIN, JEFFREY B.
10821289	Not Issued	71	04/08/2004	Method for generating a simulated network based on an actual managed network	FELDSTEIN, JEFFREY B.
07155183	Not Issued	168	02/10/1988	PERSONAL COMPUTER BASED EXECUTIVE WORK STATION	FELDSTEIN, JEFFREY B.
07010076	4727986	150	02/02/1987	SQUEEGEE	FELDSTEIN, JEFFREY E.

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